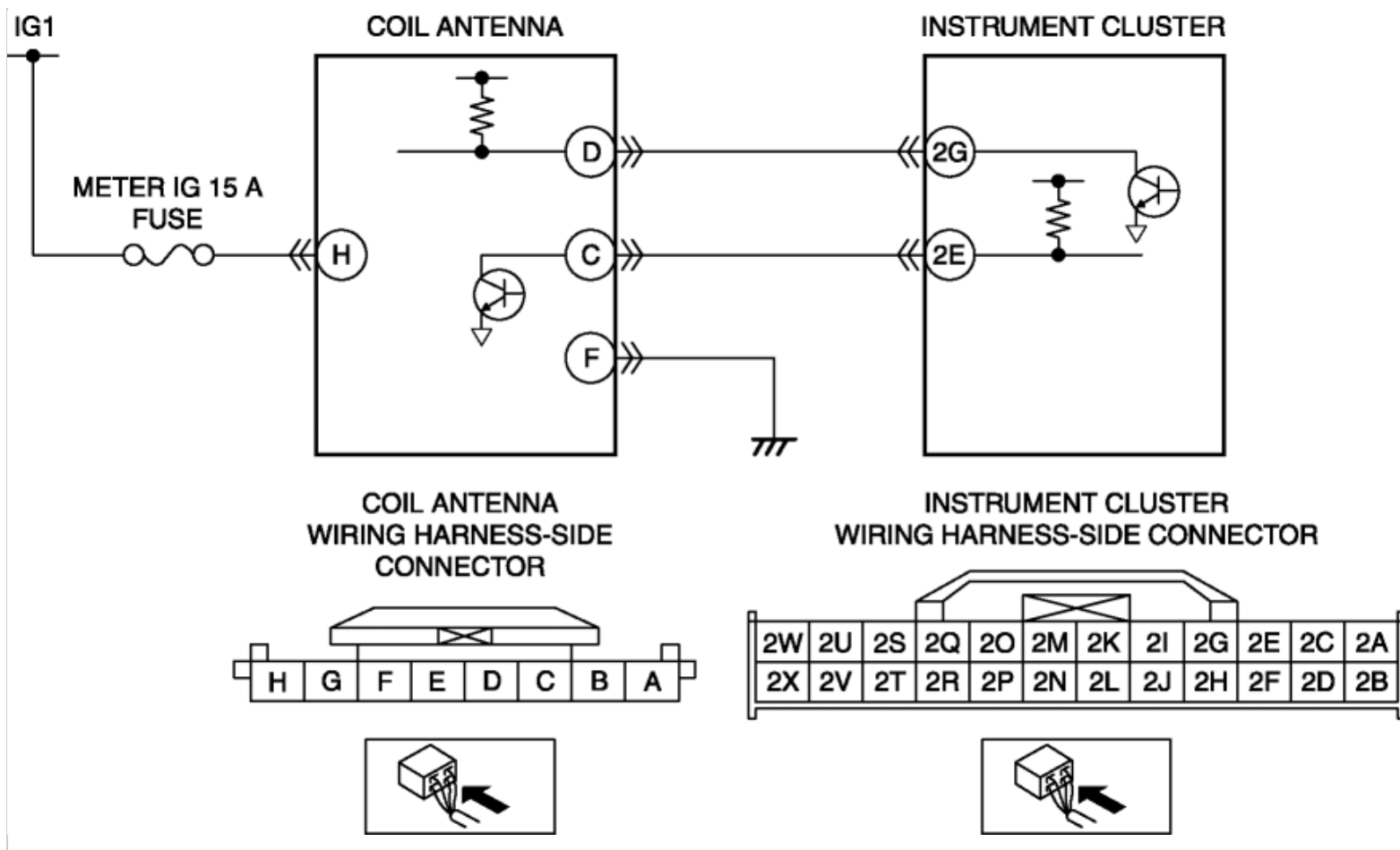


2012 - Mazda6 - Body and Accessories

SECURITY LIGHT: 11, DTC: B10D9:87/ P1260:00 [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]

DTC	Security light flashing pattern		11	No detected communication with coil antenna
	M-MDS display	Instrument cluster	B10D9:87	
		PCM	P1260:00	
POSSI BLE CAUSE				• METER IG 15 A fuse malfunction • Connector or terminal malfunction • Short to ground or open circuit in coil antenna power supply circuit • Open circuit in coil antenna ground circuit • Open circuit in wiring harness between coil antenna terminal D and instrument cluster terminal 2G • Open circuit in wiring harness between coil antenna terminal C and instrument cluster terminal 2E • Coil antenna malfunction • Instrument cluster malfunction



Diagnostic Procedure

Step	Inspection	Action
1	INSPECT METER IG 15 A FUSE - Switch the ignition to off. - Disconnect the negative battery cable. - Remove the METER IG 15 A fuse. - Is there any malfunction?	Yes Replace the fuse, then go to Step 7.
		No Go to the next step.
2	INSPECT COIL ANTENNA CONNECTOR CONDITION - Disconnect the coil antenna connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Is there any malfunction?	Yes Repair or replace the connector or terminals, then go to Step 7.
		No Go to the next step.
3	INSPECT COIL ANTENNA POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Install the METER IG 15 A fuse. - Reconnect the negative battery cable.	Yes Go to the next step.
		No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to Step 7.

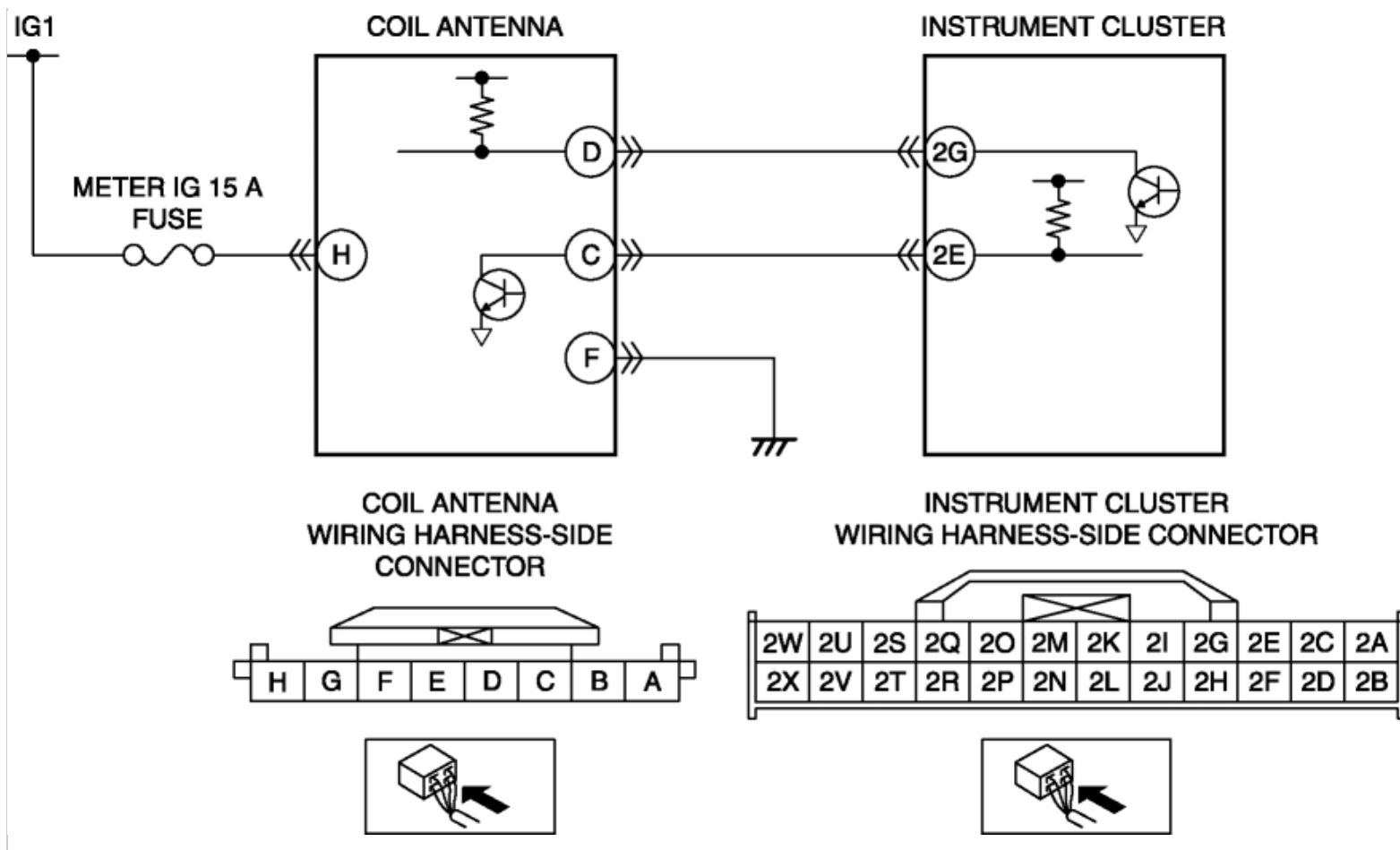
	• Switch the ignition to ON (engine off). • Measure the voltage between coil antenna terminal H (wiring harness-side) and body ground. • Is the voltage 8 V or more?		
4	INSPECT COIL ANTENNA GROUND CIRCUIT FOR OPEN CIRCUIT • Switch the ignition to off. • Disconnect the negative battery cable. • Inspect for continuity between coil antenna terminal F (wiring harness-side) and body ground. • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 7.
5	INSPECT INSTRUMENT CLUSTER CONNECTOR CONDITION • Disconnect the instrument cluster connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	Yes	Repair or replace the connector or terminals, then go to Step 7.
		No	Go to the next step.
6	INSPECT COIL ANTENNA COMMUNICATION CIRCUIT FOR OPEN CIRCUIT • Inspect for continuity between the following terminals: ▪ Coil antenna terminal D (wiring harness-side) and instrument cluster terminal 2G (wiring harness-side) ▪ Coil antenna terminal C (wiring harness-side) and instrument cluster terminal 2E (wiring harness-side) • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 7.
7	PERFORM DTC INSPECTION • Reconnect the disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the instrument cluster and PCM memory using the M-MDS. (See CLEARING DTC [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)].) • Perform the immobilizer system (keyless entry system) DTC inspection using the M-MDS. (See DTC INSPECTION [IMMOBILIZER SYSTEM	Yes	Replace the coil antenna, then go to the next step. (See COIL ANTENNA REMOVAL/ INSTALLATION [KEYLESS ENTRY SYSTEM] .)
		No	Go to Step 9.

	(KEYLESS ENTRY SYSTEM)).) Is the same DTC present?		
8	VERIFY TROUBLESHOOTING COMPLETED - Clear the DTC from the instrument cluster and PCM memory using the M-MDS. (See CLEARING DTC [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)].) - Perform the immobilizer system (keyless entry system) DTC inspection using the M-MDS. (See DTC INSPECTION [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)].) - Is the same DTC present?	Yes	Replace the instrument cluster and program the immobilizer system-related parts, then go to the next step. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.) (See IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [KEYLESS ENTRY SYSTEM].)
		No	Go to the next step.
9	VERIFY THAT NO OTHER DTCs ARE PRESENT Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)].)
		No	DTC troubleshooting completed.

2012 - Mazda6 - Body and Accessories

SECURITY LIGHT: 11, DTC: B10D9:87/ P1260:00 [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]

DTC	Security light flashing pattern		11	No detected communication with coil antenna
	M-MDS display	Instrument cluster	B10D9:87	
		PCM	P1260:00	
POSSI BLE CAUSE				• METER IG 15 A fuse malfunction • Connector or terminal malfunction • Short to ground or open circuit in coil antenna power supply circuit • Open circuit in coil antenna ground circuit • Open circuit in wiring harness between coil antenna terminal D and instrument cluster terminal 2G • Open circuit in wiring harness between coil antenna terminal C and instrument cluster terminal 2E • Coil antenna malfunction • Instrument cluster malfunction



Diagnostic Procedure

Step	Inspection	Action
1	INSPECT METER IG 15 A FUSE - Switch the ignition to off. - Disconnect the negative battery cable. - Remove the METER IG 15 A fuse. - Is there any malfunction?	Yes Replace the fuse, then go to Step 7.
		No Go to the next step.
2	INSPECT COIL ANTENNA CONNECTOR CONDITION - Disconnect the coil antenna connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Is there any malfunction?	Yes Repair or replace the connector or terminals, then go to Step 7.
		No Go to the next step.
3	INSPECT COIL ANTENNA POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Install the METER IG 15 A fuse. - Reconnect the negative battery cable.	Yes Go to the next step.
		No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to Step 7.

	• Switch the ignition to ON (engine off). • Measure the voltage between coil antenna terminal H (wiring harness-side) and body ground. • Is the voltage 8 V or more?		
4	INSPECT COIL ANTENNA GROUND CIRCUIT FOR OPEN CIRCUIT • Switch the ignition to off. • Disconnect the negative battery cable. • Inspect for continuity between coil antenna terminal F (wiring harness-side) and body ground. • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 7.
5	INSPECT INSTRUMENT CLUSTER CONNECTOR CONDITION • Disconnect the instrument cluster connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	Yes	Repair or replace the connector or terminals, then go to Step 7.
		No	Go to the next step.
6	INSPECT COIL ANTENNA COMMUNICATION CIRCUIT FOR OPEN CIRCUIT • Inspect for continuity between the following terminals: ▪ Coil antenna terminal D (wiring harness-side) and instrument cluster terminal 2G (wiring harness-side) ▪ Coil antenna terminal C (wiring harness-side) and instrument cluster terminal 2E (wiring harness-side) • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 7.
7	PERFORM DTC INSPECTION • Reconnect the disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the instrument cluster and PCM memory using the M-MDS. (See CLEARING DTC [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)].) • Perform the immobilizer system (keyless entry system) DTC inspection using the M-MDS. (See DTC INSPECTION [IMMOBILIZER SYSTEM	Yes	Replace the coil antenna, then go to the next step. (See COIL ANTENNA REMOVAL/ INSTALLATION [KEYLESS ENTRY SYSTEM] .)
		No	Go to Step 9.

	(KEYLESS ENTRY SYSTEM)).) Is the same DTC present?		
8	VERIFY TROUBLESHOOTING COMPLETED - Clear the DTC from the instrument cluster and PCM memory using the M-MDS. (See CLEARING DTC [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)].) - Perform the immobilizer system (keyless entry system) DTC inspection using the M-MDS. (See DTC INSPECTION [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)].) - Is the same DTC present?	Yes	Replace the instrument cluster and program the immobilizer system-related parts, then go to the next step. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.) (See IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [KEYLESS ENTRY SYSTEM].)
		No	Go to the next step.
9	VERIFY THAT NO OTHER DTCs ARE PRESENT Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)].)
		No	DTC troubleshooting completed.